

PATENT
AVIGEN-04082

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Couto *et al.*

Serial No.: 09/470,618

Group No.: 1633

Filed: 12/22/99

Examiner: Nikodem, D.

Entitled:

**ADENO-ASSOCIATED VECTORS FOR
EXPRESSION OF FACTOR VIII BY TARGET CELLS**

AMENDMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

CERTIFICATE OF TRANSMISSION UNDER 37 C.F.R. § 1.8(a)(1)(ii)(B)

I hereby certify that this correspondence (along with any referred to as being attached or enclosed) is, on the date shown below, being transmitted by facsimile to the Patent and Trademark Office.

Dated: October 2, 2000

By

Kammie T. MacKnight

Sir:

Please cancel pending Claims 1-40.

Please add the following new Claims:

1. A method of treating hemophilia in a mammal, comprising:

- providing recombinant adeno-associated virus virions comprising a nucleotide sequence encoding Factor VIII operably linked to expression control elements; and
- administering said recombinant adeno-associated virus virions to a mammal under conditions that result in the expression of Factor VIII protein at a level that provides a therapeutic effect in said mammal.